

Refrigeration, Air Conditioning, and Warm Air Heating Equipment

2000

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Current
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Information about the scope of the survey, methodology, explanation of terms and historical notes for this survey may be found in the introduction of the 1998 Manufacturing Profiles, issued December 2000.

Current data are released electronically on Internet for all individual surveys as they become available. Use: <http://www.census.gov/econ/www/manumenu.html>. Individual reports can be accessed by choosing "Current Industrial Reports (CIR's)," clicking on "Report Number Index;" from the "Industrial Products by Numeric Index," choose the survey of interest. Follow the menu to view the PDF file or to download the worksheet file (WK format) to your personal computer.

These data are also available through the U.S. Department of Commerce and STAT-USA Electronic Bulletin Board by subscription. To access, dial 202-482-3870 and follow the prompts to register. Also, you may call 202-482-1986 or 1-800-STAT-USA, for further information. The Internet address is: www.stat-usa.gov/.

NOTE

Data are now published on the new North American Industry Classification System (NAICS) basis and therefore are not always comparable to the old Standard Industrial Classification (SIC) code. For further information on NAICS, see www.census.gov/epcd/www/naics.html.

SUMMARY OF FINDINGS

In 2000, the value of shipments of heat transfer equipment increased by 9 percent to \$5,065 million, compared with the 1999 figure of \$4,656 million. The value of shipments of condensing units, refrigeration (complete), decreased by 8 percent to \$315 million, from the 1999 level of \$342 million. Room air-conditioners showed a decrease of 5 percent in 2000 with \$1,144 million shipped, compared with the \$1,208 million shipped in 1999. The value of shipments of motor vehicle mechanical air-conditioning systems decreased by 13 percent to \$2,057 million, compared with the 1999 figure of \$2,362. Compressors and compressor units decreased less than 1 percent to \$2,972 million, compared with \$2,977 million in 1999. Automotive air-conditioning compressors showed an increase of 3 percent in 2000 with \$2,152 million shipped, compared with the \$2,097 million shipped in 1999. Nonelectric warm air furnaces and humidifiers showed a decrease of 3 percent from \$1,564 million in 1999 to a value of \$1,517 million in 2000. Unitary air conditioners increased by 5 percent to \$5,614 million, from the 1999 level of \$5,348 million. The value of shipments of air source heat pumps increased by 3 percent to \$1,025 million, compared to the 1999 figure of \$997 million.

Address inquiries concerning these data to Investment Goods Industries Branch, Manufacturing and Construction Division (MCD), Washington, DC 20233-6900, or call Keeley H. Voor, 301-457-4746.

For mail or fax copies of this publication, please contact the Information Services Center, MCD, Washington, DC 20233-6900, or call 301-457-4673.

U S C E N S U S B U R E A U

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**Table 1. Summary of Shipments of Refrigeration, Air-Conditioning, and Warm Air Heating
Equipment: 2000 and 1999**
[Value in thousands of dollars]

Product code	Product description	2000	1999
3334151	Heat transfer equipment.....	5,064,959	4,656,292
3334153 pt.	Commercial refrigeration equipment.....	249,215	243,672
3334155	Condensing units, refrigeration (complete).....	314,584	341,599
3334156	Room air-conditioners and dehumidifiers.....	1,143,764	1,208,104
3363917	Motor vehicle mechanical air-conditioning systems.....	2,057,095	2,362,069
333415A	Compressors and compressor units.....	2,972,322	2,977,132
336391B	Automotive air-conditioning compressors.....	2,151,694	2,097,329
333415C	Nonelectric warm air furnaces and dehumidifiers.....	1,516,884	1,564,269
333415E	Unitary air conditioners.....	5,613,902	5,347,502
333415F	Air source heat pumps.....	1,025,280	997,059
333415G	Ground and ground water source heat pumps.....	106,938	105,006
pt. Partial.			

Table 2. Quantity and Value of Shipments of Refrigeration, Air-Conditioning and Warm Air Heating Equipment: 2000 and 1999
[Quantity in number of units. Value in thousands of dollars]

Product code	Product description	No. of cos.	2000		1999	
			Quantity	Value	Quantity	Value
3334151	Heat transfer equipment (except room and unitary air-conditioners).....	119	(X)	5,064,959	(X)	4,656,292
3334151001	Packaged terminal air-conditioners 1/.....	7	105,360 a/	62,161	191,564	109,036
3334151003	Packaged terminal heat pumps.....	7	96,349	50,527	155,774	81,498
	Evaporative condensers.....	(X)	2,622	66,353	2,550	65,627
3334151005	100 tons and under.....	5	441	5,393	529	4,610
3334151007	Over 100 tons.....	6	2,181	60,960	2,021	61,017
	Room fan-coil air-conditioning units.....	(X)	382,923	214,483 r/	354,766	207,763
3334151009	Vertical stack.....	5	56,156	27,616 r/	40,695 r/	29,508
3334151011	Vertical.....	11 c/	198,528 c/	124,671 r/	184,582	117,549
3334151013	Horizontal.....	10 c/	128,239 a/	62,196	129,489	60,706
3334151015	Room air induction units.....	2	(D)	(D)	(D)	(D)
	Central station air-handling units (motor-driven fan type)....	(X)	466,819	761,927	392,476	659,996
3334151017	Draw through.....	18 c/	440,785 a/	635,962 c/	369,448	551,565
3334151019	Blow through.....	11 c/	8,553	86,908	7,676 r/	71,944
3334151021	Heating and ventilating.....	12 c/	17,481 a/	39,057 c/	15,352 a/r/	36,487
	Coolers (refrigeration):					
	Ceiling, wall-mounted, and floor-mounted unit coolers.....	(X)	206,795	158,817	226,577	166,629
3334151023	4,000 Btuh and below.....	9 c/	37,653 a/	8,475 c/	47,019 a/	10,524
3334151025	4,001 to 6,000 Btuh.....	8 c/	13,734 c/	4,221 c/	17,914 c/	5,260
3334151027	6,001 to 8,000 Btuh.....	8 c/	26,268 c/	14,455 c/	29,167 a/	15,094
3334151029	8,001 to 12,000 Btuh.....	8 c/	55,065 c/	26,912 c/	54,816 c/	26,017
3334151031	12,001 to 18,000 Btuh.....	9 c/	42,459 a/	28,944 c/	43,035 a/	28,734
3334151033	Over 18,000 Btuh.....	12 a/	31,616	75,810 a/	34,626	81,000
	Air-cooled refrigerant condensers (remote type).....	(X)	42,610	96,685 r/	34,016	82,078
3334151035	Under 30 tons.....	11 a/	33,132 a/	25,404 r/	25,358 r/	18,315
3334151037	30 to 50 tons.....	10 a/	3,302	14,749 a/	2,656	11,033
3334151039	Over 50 tons.....	9 a/	6,176 a/	56,532 a/	6,002 a/	52,730
	Miscellaneous heat transfer equipment:					
	Shell-and-tube, shell-and-coil, shell-and-u-tube, tube-in-tube.....	(X)	(X)	62,762	(X)	52,948
3334151041	Condensers.....	8	(X)	32,496	(X)	26,021
3334151043	Liquid coolers.....	10	(X)	30,266	(X)	26,927
3334151045	Liquid-suction heat exchangers and refrigerant liquid receivers.....	6	(X)	16,782	(X)	11,086
	Central system finned coils (air-conditioning and refrigeration type).....	(X)	(X)	86,084	(X)	84,617
3334151047	Standard steam and steam distributing tube.....	13	(X)	16,324	(X)	16,790
3334151049	Standard water cooling and/or heating and cleanable tube water.....	15	(X) a/	57,716	(X)	60,287
3334151051	Volatile refrigerant cooling.....	11	(X)	12,044	(X)	7,540
	Coil sales by original equipment manufacturers intended for resale or assembly into equipment by other manufacturer (all types).....	(X)	(X)	468,344	(X)	460,179
3334151053	Copper and aluminum.....	15	(X)	330,419	(X)	322,309
3334151055	Aluminum (only).....	8	(X)	69,365	(X)	70,949
3334151057	Other, including steel and copper.....	8	(X)	68,560	(X)	66,921
3334151059	Factory-assembled, refrigeration type, finned gravity coils, including wetted-surface dehumidifiers.....	4	(X)	(D)	(X) c/	16,005
	Centrifugal liquid chilling packages, hermetic and open types.....	(X)	9,024	742,249	7,528	585,507
3334151061	200 hp and under.....	8 c/	2,156	54,504	1,851	46,451
3334151063	201 to 300 hp.....	6	1,288	76,616	1,361	75,446
3334151065	301 to 400 hp.....	5	1,691	119,236	1,263	87,724
3334151067	Over 400 hp.....	5	3,889	491,893	3,053	375,886
	Ice-making machines.....	(X)	385,357	555,690 r/	363,109 r/	522,712
	Self-contained ice-cube makers.....	(X)	270,514	314,446 r/	247,944 r/	282,451
3334151069	Automatic, 200 lb and under	6 a/	154,678 a/	127,058 r/	135,723 r/	101,636
3334151071	Automatic, 201 lb and over.....	7 c/	115,836 c/	187,388 r/	112,221 r/	180,815
	Self-contained flake or chip machines.....	(X)	16,759	38,140	15,863	38,269
3334151073	300 lb and under.....	4 a/	3,315 c/	4,386 a/	3,263	5,030
3334151075	Over 300 lb.....	12 b/	13,444 c/	33,754 c/	12,600 c/	33,239
3334151077	Not self-contained.....	7 c/	62,038 c/	113,010 r/	64,430 r/	114,963
3334151079	Combination ice makers and ice/drink dispensers.....	6	36,046	90,094	34,872	87,029
3334151081	Absorption refrigeration and dehydration systems.....	7	(D)	(D)	(D)	(D)
3334151083	Mechanical refrigeration systems used on all types of vehicles.....	7	(D)	(D)	(D)	(D)

Table 2. Quantity and Value of Shipments of Refrigeration, Air-Conditioning and Warm Air Heating Equipment: 2000 and 1999
[Quantity in number of units. Value in thousands of dollars]

Product code	Product description	No. of cos.	2000		1999	
			Quantity	Value	Quantity	Value
	Reciprocating air and reciprocating water cooled, air-cooled screw, air-cooled scroll, and water-cooled scroll machines.....	(X)	24,878	561,339	24,064	475,730
3334151085	20 hp and under.....	26	8,716	46,479	8,118	41,748
3334151087	21 to 49 hp.....	21	3,956	32,984	4,245	32,863
3334151089	50 to 75 hp.....	20	3,241	64,508	3,392	66,286
3334151091	Over 75 hp.....	17	8,965	417,368	8,309	334,833
3334151093	Factory-fabricated water cooling towers.....	9 a/	10,193 a/	212,303 a/	9,197 a/	169,868
3334153146	Commercial refrigeration equipment, mechanical drinking water coolers.....	5	1,150,391	249,215	1,101,804	243,672
3334155	Condensing units, refrigeration (complete).....	22	467,651	314,584	526,096	341,599
	Air-cooled hermetic-type.....	(X)	453,949	208,526	515,515	246,301
3334155023	1 hp and under.....	13	369,118	104,717	421,463	118,942
3334155025	1.5 hp.....	9	20,514 a/	14,553	19,999 a/	14,145
3334155028	2 and 2.5 hp.....	11	21,928	19,516	23,346	21,163
3334155030	3 hp.....	9	21,247 a/	23,881	24,209 a/	30,065
3334155032	Over 3 hp, but under 15 hp.....	12	21,142 a/	45,859 a/	26,498 a/	61,986
3334155044	Water-cooled hermetic-type, under 15 hp.....	4	6,369 a/	5,073	(D)	(D)
	Water or air-cooled hermetic-type.....	(X)	7,134	98,801	5,628	81,016
3334155061	15 hp.....	8 c/	3,279 c/	55,155	2,629	44,848
3334155063	20 hp.....	6 a/	1,089 a/	7,395 a/	789 a/	5,486
3334155065	25 hp.....	6	757 a/	5,506 a/	380 a/	3,399
3334155067	30 hp.....	7 a/	1,010 a/	10,404 a/	744 a/	7,441
3334155070	40 hp.....	5 a/	999 a/	20,341 a/	1,086 a/	19,842
3334155080	Water or air-cooled open-type (all sizes).....	5 a/	199	2,184	(D)	(D)
3334156	Room air-conditioners and dehumidifiers.....	17	(X)	1,143,764	(X)	1,208,104
3334156011	Electrically operated dehumidifiers, mechanically refrigerated, self-contained.....	11	746,682	112,129	r/ 848,153	r/ 126,663
	Room air-conditioners.....	(X)	4,483,343	1,031,635	4,018,338	1,081,441
3334156031	5,999 Btuh and under.....	8	1,258,920	176,906	1,012,943	156,545
3334156034	6,000 to 6,999 Btuh.....	6	343,511	60,373	r/ 283,776	r/ 51,743
3334156038	7,000 to 7,999 Btuh.....	7	165,233	34,403	292,884	68,929
3334156042	8,000 to 8,999 Btuh.....	4	568,588	104,940	404,293	93,661
3334156046	9,000 to 9,999 Btuh.....	5	25,372	9,644	91,508	28,590
3334156052	10,000 to 10,999 Btuh.....	8	669,857	129,114	503,301	136,472
3334156056	11,000 to 12,999 Btuh.....	10	689,152	168,574	615,601	188,833
3334156061	13,000 to 14,999 Btuh.....	7	18,877	10,914	r/ 47,664	r/ 21,143
3334156063	15,000 to 16,999 Btuh.....	7	140,362	50,176	r/ 132,952	r/ 51,363
3334156065	17,000 to 19,999 Btuh.....	8	352,580	123,267	r/ 361,849	r/ 137,265
3334156067	20,000 to 22,999 Btuh.....	6	56,584	22,199	r/ 44,916	r/ 19,652
3334156071	23,000 to 25,999 Btuh.....	10	147,751	68,099	r/ 192,788	r/ 84,301
3334156075	26,000 Btuh and over.....	9	46,556	73,026	33,863	42,944
3363917	Motor vehicle mechanical air-conditioning systems.....	(X)	(X)	2,057,095	(X)	2,362,069
3363917010	Air-conditioning units and systems for passenger automobiles 2/.....	18 a/	8,718,098 a/	1,426,368	r/ 8,452,909	1,601,532
3363917020	Air-conditioning units and systems for buses.....	8 c/	329,162 a/	146,210 a/	288,944 a/	125,457
3363917030	Other motor vehicle mechanical air-conditioning systems.....	8 c/	2,978,565 c/	484,517	3,873,351	635,080
333415A	Compressors and compressor units 3/ 4/.....	25	(X)	2,972,322	(X)	2,977,132
	All refrigerants (except ammonia).....	(X)	22,678,593	2,836,054	24,246,481	2,864,937
	Hermetic-type motor compressors.....	(X)	22,608,566	2,708,340	24,179,138	2,754,575
333415A011	Under 3 hp.....	10	17,731,298	1,357,744	18,207,865	1,344,838
333415A023	3 to 10 hp.....	11	(D)	(D)	r/ 5,863,573	1,078,092
333415A030	15 hp.....	10	27,498	28,468	30,044	30,920
333415A032	20 hp.....	10	22,251	35,088	21,895	33,370
333415A034	25 hp.....	10	17,316	29,315	16,931	27,227
333415A036	30 hp.....	11	9,763	25,897	10,471	27,053
333415A039	40 and 50 hp.....	10	(D)	(D)	15,224	51,401
333415A042	60 hp.....	8	3,394	13,768	4,249	16,855
333415A046	75 hp.....	7	(D)	(D)	(D)	(D)
333415A049	100 hp and over.....	7	(D)	(D)	(D)	(D)
333415A052	Open-type compressors (with or without motor--all sizes).....	13	(D)	(D)	(D)	(D)
333415A054	Screw type.....	5	(D)	(D)	(D)	(D)
333415A058	Ammonia refrigerants (all types).....	8 a/	2,959	136,268	c/ 2,858	c/ 112,195
336391B000	Automotive air-conditioning compressors (open-type, with or without motor).....	8 a/	20,235,859 a/	2,151,694	19,949,130	2,097,329

Table 2. Quantity and Value of Shipments of Refrigeration, Air-Conditioning and Warm Air Heating Equipment: 2000 and 1999
[Quantity in number of units. Value in thousands of dollars]

Product code	Product description	No. of cos.	2000		1999	
			Quantity	Value	Quantity	Value
333415C pt.	Nonelectric warm air furnaces and humidifiers.....	(X)	(X)	1,516,884	(X)	1,564,269
	Oil, forced air:					
333415C001	150,000 Btuh bonnet output and under.....	15	110,692	76,951	134,566	98,897
333415C005	150,001 Btuh bonnet output and over.....	12	(D)	(D)	5,903	7,680
	Gas, forced air:					
333415C007	150,000 Btuh bonnet output and under.....	17	2,738,223	1,185,791	2,919,047	1,216,333
333415C009	150,001 to 400,000 Btuh bonnet output.....	14	12,958	18,232	6,347	13,523
333415C011	Over 400,000 Btuh bonnet output.....	8	c/ 372,364	c/ 155,732	c/ 370,584	c/ 156,448
333415C079	All other nonelectric warm air furnaces.....	4	(D)	(D)	c/ 1,083	c/ 1,654
333415C081	Humidifiers (attachments to warm air furnaces) (all types), including central systems and self-contained (except portable humidifiers).....	16	675,762	73,163	656,308	69,734
333415E	Unitary air-conditioners.....	48	(X)	5,613,902	(X)	5,347,502
333415E005	Recreational vehicle air-conditioners.....	6	(D)	(D)	(D)	(D)
	Single package air-conditioners, with or without evaporator fans, including refrigeration chassis and remote-condenser type.....	(X)	(D)	(D)	(D)	(D)
	Horizontal.....	(X)	266,459	788,924	253,121	632,420
333415E007	Under 27,000 Btuh.....	16	22,991	a/ 26,973	22,931	a/ 25,978
333415E009	27,000 to 32,999 Btuh.....	14	29,869	a/ 35,052	33,563	a/ 36,653
333415E011	33,000 to 53,999 Btuh.....	16	82,863	a/ 90,194	a/ 94,707	a/ 91,381
333415E013	54,000 to 64,999 Btuh.....	16	50,251	73,975	40,923	57,235
333415E015	65,000 to 96,999 Btuh.....	14	24,264	61,470	18,830	48,265
333415E017	97,000 to 134,999 Btuh.....	13	21,545	72,847	15,508	52,738
333415E019	135,000 to 184,999 Btuh.....	11	12,743	57,246	9,521	43,500
333415E021	185,000 to 249,999 Btuh.....	10	8,471	62,257	6,223	46,241
333415E023	250,000 to 319,999 Btuh.....	9	5,764	51,719	4,862	41,463
333415E035	320,000 to 379,999 Btuh.....	9	1,576	25,700	1,341	21,429
333415E041	380,000 Btuh and over.....	10	6,122	231,491	4,712	167,537
	Other than horizontal.....	(X)	(D)	(D)	(D)	(D)
333415E043	Under 54,000 Btuh.....	6	(D)	(D)	(D)	(D)
333415E045	54,000 to 64,999 Btuh.....	5	(D)	(D)	(D)	(D)
333415E047	65,000 to 96,999 Btuh.....	3	476	1,883	485	1,852
333415E049	97,000 to 134,999 Btuh.....	4	623	3,056	611	2,921
333415E051	135,000 to 184,999 Btuh.....	4	668	4,588	529	3,621
333415E053	185,000 Btuh and over.....	5	(D)	(D)	(D)	(D)
	Year-round air-conditioners, single package and remote-condenser type (except heat pumps).....	(X)	674,669	1,616,458	648,390	1,513,947
333415E055	Under 33,000 Btuh.....	16	157,713	139,888	140,682	130,756
333415E057	33,000 to 38,999 Btuh.....	15	124,280	137,080	120,488	132,085
333415E059	39,000 to 43,999 Btuh.....	11	35,170	38,753	35,118	38,665
333415E061	44,000 to 53,999 Btuh.....	12	75,248	99,369	74,438	98,072
333415E063	54,000 to 64,999 Btuh.....	13	108,063	215,781	103,464	180,439
333415E065	65,000 to 134,999 Btuh.....	10	109,988	325,558	112,190	327,655
333415E067	135,000 to 184,999 Btuh.....	9	30,617	163,622	31,089	159,719
333415E069	185,000 to 249,999 Btuh.....	10	16,344	131,785	15,344	123,634
333415E071	250,000 to 319,999 Btuh.....	8	8,643	83,738	7,670	72,734
333415E073	320,000 to 379,999 Btuh.....	8	2,373	37,294	2,155	34,154
333415E075	380,000 to 539,999 Btuh.....	6	2,127	43,347	2,201	43,394
333415E077	540,000 to 639,999 Btuh.....	7	1,510	51,112	r/ 1,232	r/ 37,279
333415E079	640,000 Btuh and over.....	7	2,593	149,131	r/ 2,319	r/ 135,361
333415E081	Water source heat pumps (except room air-conditioners).....	8	c/ 132,378	c/ 144,858	120,545	135,033
	Split system air-conditioning condensing units.....	(X)	4,254,715	2,116,235	4,321,904	2,131,353
333415E082	Under 22,000 Btuh.....	12	a/ 314,687	98,199	a/ 297,009	r/ 92,618
333415E083	22,000 to 26,999 Btuh.....	13	883,770	304,631	874,204	301,289
333415E085	27,000 to 32,999 Btuh.....	14	747,451	303,761	753,131	306,370
333415E087	33,000 to 38,999 Btuh.....	12	930,915	419,749	1,073,996	470,369
333415E089	39,000 to 43,999 Btuh.....	11	387,110	206,784	378,134	201,883
333415E091	44,000 to 53,999 Btuh.....	12	515,002	303,856	505,196	297,233
333415E093	54,000 to 64,999 Btuh.....	10	402,603	280,205	373,839	259,275
333415E095	65,000 to 96,999 Btuh.....	6	29,165	37,298	26,255	34,002
333415E097	97,000 to 134,999 Btuh.....	6	20,277	37,985	18,296	34,870
333415E099	135,000 to 184,999 Btuh.....	7	10,546	31,136	9,948	51,092
333415E09A	185,000 to 249,999 Btuh.....	7	5,849	24,294	5,266	22,147
333415E09C	250,000 to 319,999 Btuh.....	3	1,760	10,068	1,661	9,482
333415E09E	320,000 to 379,999 Btuh.....	4	1,969	12,623	1,761	11,304
333415E09G	380,000 to 539,999 Btuh.....	5	1,494	13,457	1,305	11,662

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[Quantity in number of units. Value in thousands of dollars]

Product code	Product description	No. of cos.	2000		1999	
			Quantity	Value	Quantity	Value
333415E09J	540,000 to 639,999 Btuh	4	723	8,200	604	6,792
333415E09L	640,000 Btuh and over.....	4	1,394	23,989	1,299	20,965
	Split system air-conditioning coils.....	(X)	3,355,451	686,989	3,284,499	661,675
333415E09M	With blower.....	11 a/	1,586,328	454,723	a/ 1,510,089	430,433
333415E09P	Without blower.....	12	1,769,123	232,266	1,774,410	231,242
333415F	Air source heat pumps (except room air-conditioners).....	17	1,281,525	1,025,280	1,247,863	997,059
	Single package:					
333415F023	Under 27,000 Btuh.....	14	31,538	27,403	29,446	25,592
333415F034	27,000 to 41,999 Btuh.....	14	94,922	104,901	96,416	108,295
333415F045	42,000 to 64,999 Btuh.....	14	77,864	105,897	76,746	104,940
333415F056	65,000 Btuh and over.....	8	14,035	48,674	13,028	46,917
	Split system:					
333415F067	Under 27,000 Btuh.....	14 a/	349,198	173,608	a/ 345,534	170,857
333415F078	27,000 to 41,999 Btuh.....	13	446,754	304,203	429,294	291,356
333415F089	42,000 to 64,999 Btuh.....	12	245,335	223,386	236,697	213,653
333415F095	65,000 Btuh and over.....	6	21,879	37,208	20,702	35,449
333415G	Ground and ground water source heat pumps.....	6	69,488 a/	106,938	76,750	105,006
	Single and split systems:					
333415G010	Under 27,000 Btuh.....	2	(D)	(D)	(D)	(D)
333415G020	27,000 to 41,999 Btuh.....	1	(D)	(D)	(D)	(D)
333415G030	42,000 to 64,999 Btuh.....	2	(D)	(D)	8,528	11,274
333415G040	65,000 Btuh and over.....	3	(D)	(D)	(D)	(D)

Btuh British thermal units-per hour. D Withheld to avoid disclosing data for individual companies. pt. Partial. r/Revised by percent or more from previously published data. X Not applicable.

1/Defined as factory selected combinations of heating and cooling components or assemblies intended to serve an individual room and comprising: (1) heating assembly available with element for use with hot water, steam, and electricity; means for forced heated air circulation and distribution; integral or remote temperature controls; (2) slide-in cooling section with complete refrigerant cycle; (3) room cabinet; (4) provision for outdoor air intake and discharge and accessories as required for mounting in a building wall; (5) provisions for air filtration and ventilation; (6) permanent individual branch circuit wiring with a suitable line cord or terminating at a junction box within the room cabinet; and (7) provision for free conditioned air distribution, or when forced circulation is employed for minimal duct work having a total external static resistance not exceeding 1/10 inch of water.

2/Data exclude systems assembled from purchased components and installed at passenger automobile assembly lines. The values are understated for some systems because of the exclusion of compressors.

3/Represents only those compressors and compressor units produced and shipped separately, including interplant transfers.

4/Includes units shipped for household refrigerators.

Note: Percent of estimation for each item is indicated as follows: a/15 to 25 percent of this item is estimated. b/26 to 50 percent of this item is estimated. c/Over 50 percent of this item is estimated.

Table 3. Quantity of Assembled Compressor Bodies: 2000 and 1999
[Quantity of number units]

Product description	No. of cos.	2000	1999
Compressor bodies 1/ 2/.....	(X)	32,425,651	35,199,349
All refrigerants (except ammonia).....	(X)	22,237,276	23,707,750
Other than automotive air-conditioning.....	(X)	(D)	(D)
1/4 hp and under.....	5	(D)	(D)
1/3 hp and 1/2 hp.....	5	(D)	(D)
3/4 hp and 1 hp.....	5	(D)	(D)
1-1/2 hp.....	6	469,924	r/ 619,752
2 hp.....	6	(D)	(D)
3 hp.....	10	(D)	(D)
4 hp.....	4	359,592	r/ 400,178
5 hp.....	8	1,215,943	1,216,195
7-1/2 hp.....	11	167,192	179,106
10 hp.....	13	(D)	(D)
15 hp.....	11	147,161	155,173
20 hp.....	10	30,353	(D)
25 hp.....	11	25,390	24,504
30 hp.....	12	18,794	25,601
40 hp.....	12	21,763	22,745
50 hp.....	9	4,488	4,043
60 hp.....	10	5,809	6,236
75 hp.....	9	11,888	9,528
100 hp and over.....	8	16,811	16,504
Automotive air-conditioning, including passenger auto- mobiles, trucks, buses, agriculture and construction equipment.....	4	(D)	(D)
Ammonia refrigerants.....	5	(D)	(D)

D Withheld to avoid disclosing data for individual companies. r/Revised by 5 percent or more from previously published data. X Not applicable.

1/Includes units for household refrigerators.

2/Represents the total number of compressor bodies assembled, whether shipped separately or incorporated into a condensing package or unitary end-use product, such as single package air-conditioners freezers, and refrigerators (manufactured and remanufactured units).

Table 4. Shipments, Exports, Imports, and Apparent Consumption of Air-Conditioning and Refrigeration Equipment: 2000 and 1999
[Value in thousands of dollars]

Product code 1/	Product description	Manufactures' shipments (value f.o.b. plant)	Exports of domestic merchandise (value at port) 1/ 2/	Imports for consump- tion 3/ 4/
2000				
3334151	Heat transfer equipment, excluding room and unitary air-conditioners and dehumidifiers.....	5,064,959	335,740	122,617
3334153146	Commercial refrigeration equipment, mechanical drinking water coolers.....	249,215	12,620	20,006
3334155	Condensing units, all refrigerants.....	314,584	21,678	17,564
3334156	Room air-conditioners and dehumidifiers.....	1,143,764	101,566	665,116
3363917	Motor vehicle mechanical air-conditioning systems.....	2,057,095	(NA)	(NA)
333415A	Compressors and compressor units, all refrigerants.....	2,972,322	1,100,249	1,002,154
336391B	Automotive air-conditioning compressors.....	2,151,694	(NA)	(NA)
333415C pt.	Nonelectric warm air furnaces and humidifiers.....	1,516,884	(NA)	(NA)
333415E	Unitary air-conditioners.....	5,613,902	338,034	161,847
333415F	Air source heat pumps.....	1,025,280	(NA)	(NA)
333415G	Ground and ground water source heat pumps.....	106,938	(NA)	(NA)
1999				
3334151	Heat transfer equipment, excluding room and unitary air-conditioners and dehumidifiers.....	4,656,292	267,984	98,087
3334153146	Commercial refrigeration equipment, mechanical drinking water coolers.....	243,672	13,902	13,680
3334155	Condensing units, all refrigerants.....	341,599	31,396	61,431
3334156	Room air-conditioners and dehumidifiers.....	1,208,104	98,980	323,130
3363917	Motor vehicle mechanical air-conditioning systems.....	2,362,069	(NA)	(NA)
333415A	Compressors and compressor units, all refrigerants.....	2,977,132	998,308	820,581
336391B	Automotive air-conditioning compressors.....	2,097,329	(NA)	(NA)
333415C pt.	Nonelectric warm air furnaces and humidifiers.....	1,564,269	(NA)	(NA)
333415E	Unitary air-conditioners.....	5,347,502	383,078	123,282
333415F	Air source heat pumps.....	997,059	(NA)	(NA)
333415G	Ground and ground water source heat pumps.....	105,006	(NA)	(NA)

NA Not available. pt. Partial.

1/Source: Census Bureau report EM 545, U.S. Exports (see Table 5 for a comparison of NAICS codes and import and export numbers).

2/This dollar value represents the c.i.f. (cost, insurance, and freight) value at the port of export.

3/Source: Census Bureau report IM 145, U.S. Imports for Consumption. Data include both import value and duty value.

4/Represents the c.i.f. (cost, insurance, and freight) value at the first port of entry in the United States plus U.S. import duties.

Table 5. Comparison of North American Industry Classification System-Based Product Codes with Schedule B Export Numbers, and HTSUSA Import Numbers: 2000

Product code	Product description	Export number 1/	Import number 2/
3334151	Heat transfer equipment.....	8415.82.0030 8415.82.0035 8415.83.0040 8418.69.0010 8418.69.0015 8418.69.0045 8418.69.0050 8418.69.0055 8418.69.0060	8415.82.0030 8415.82.0035 8415.83.0040 8418.69.0010 8418.69.0015 8418.69.0045 8418.69.0050 8418.69.0055 8418.69.0060
3334153146	Mechanical drinking water coolers.....	8418.69.0020	8418.69.0020
3334155	Refrigeration condensing units.....	8418.99.0005 8418.99.0010 8418.99.0015 8418.99.0020 8418.99.0025	8418.99.8005 8418.99.8010 8418.99.8015 8418.99.8020 8418.99.8025
3334156	Room air-conditioners and dehumidifiers.....	8415.10.0040 8415.10.0060 8415.10.0080 8415.82.0050	8415.10.0040 8415.10.0060 8415.10.0080 8415.82.0055 8415.82.0060
3363917	Motor vehicle mechanical air-conditioning systems 3/.....	(X)	(X)
333415A	Compressors and compressor units, all refrigerants.....	8414.30.4000 8414.30.8010 8414.30.8020 8414.30.8030 8414.30.8050 8414.30.8060 8414.30.8070 8414.30.8080 8414.30.8090	8414.30.4000 8414.30.8010 8414.30.8020 8414.30.8030 8414.30.8050 8414.30.8060 8414.30.8070 8414.30.8080 8414.30.8090
336391B	Automotive air-conditioning compressors 3/.....	(X)	(X)
333415C	Nonelectric warm air furnaces and humidifiers 3/...	(X)	(X)
333415E	Unitary air-conditioners (except room).....	8415.81.0010 8415.81.0020 8415.81.0030 8415.82.0005 8415.82.0010 8415.82.0015 8415.82.0020 8415.82.0025 8415.83.0050 8415.83.0060	8415.81.0010 8415.81.0020 8415.81.0030 8415.82.0005 8415.82.0010 8415.82.0015 8415.82.0020 8415.82.0025 8415.83.0050 8415.83.0060
333415F	Air source heat pumps 3/.....	(X)	(X)
333415G	Ground and ground water source heat pumps 3/....	(X)	(X)

X Not applicable

1/Source: 2000 edition, Harmonized System-based Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported from the United States.

2/Source: Harmonized Tariff Schedule of the United States, Annotated (2000).

3/Import-export classification not directly comparable.